

# Go Green!

## Progress for Northwest Green Power

Washington, D.C

September 30, 2002

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Renewable Northwest Project

# Renewable Northwest Project

Generating Support for New Renewables

- Providing project support and review
- Launching Policy and Market Initiatives
- Building a green power market



# Renewable Generation Projects

- Total renewable capacity increased from 110 MW to 450 MW. About 100 MW under construction.
- Energy crisis encouraged development; projects in the ground quickly.
- Four new wind projects  
Stateline, Condon,  
Klondike, Nine Canyon
- Two new solar projects
- Geothermal project  
in N. CA will serve  
NW customers





**Stateline Wind Project**



**Condon Construction**



# Solar Pioneer Project

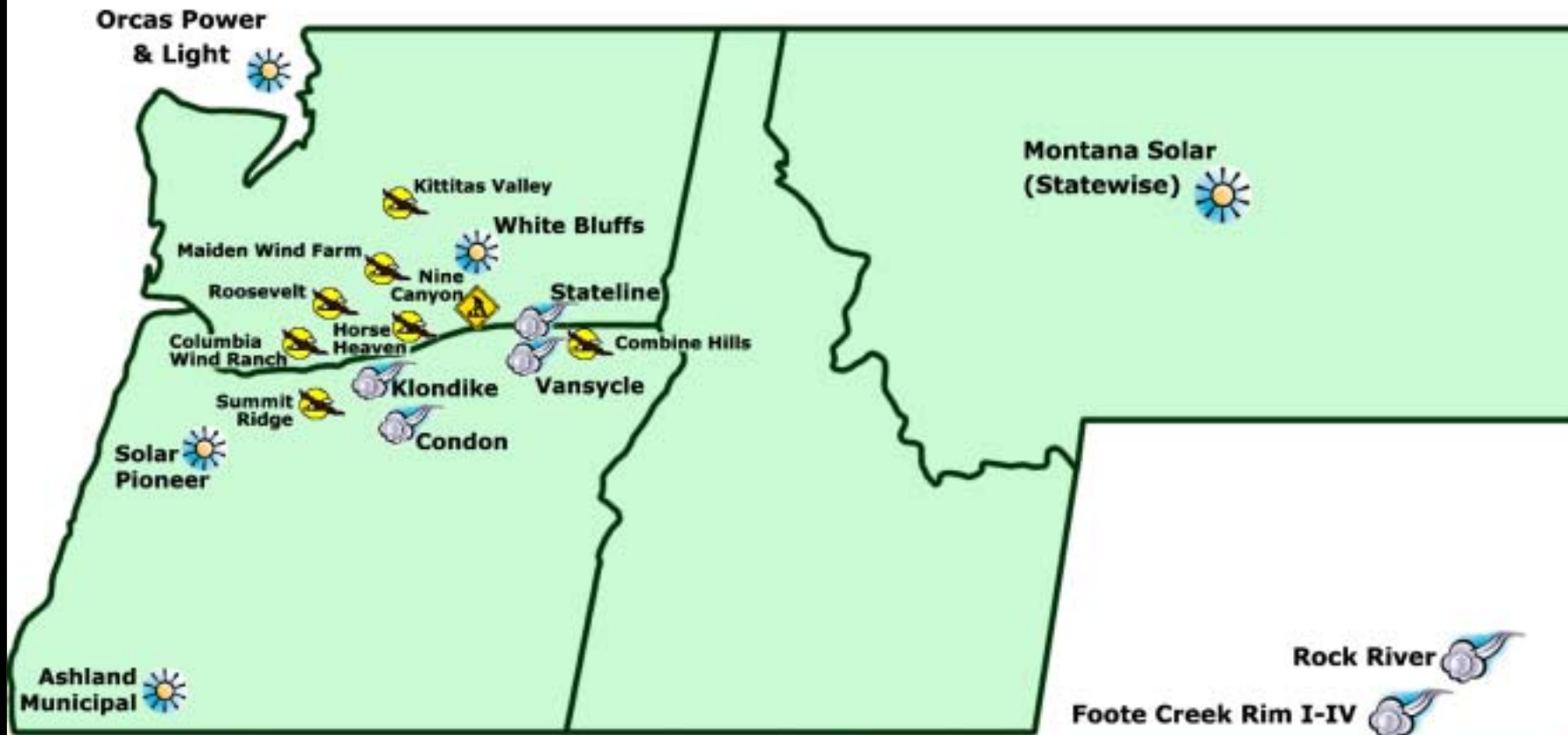




White Bluffs Solar Facility, WA  
Photo by Gary Miller of Energy Northwest  
courtesy of Bonneville Environmental Foundation

# White Bluffs/Hanford Solar Installation

# Renewable Energy Projects in the Northwest 2002



Glass Mountain

## Legend



Wind - Operating



Wind - Construction



Wind - Env Review



Solar



Geothermal



# Pacific Northwest Renewable Energy Projects



Resource	Project	State	Capacity (MW)	Output (aMW)	Participants	Developer	Enviro. Review	Current Status
<b>Wind (Operating)</b>	Stateline	OR/WA	263.0	81.6	Pacific Power Marketing	FPL Energy	Completed	Operating
	Foote Creek Rim I-IV	WY	85.0	33.5	PacifiCorp, EWEB, BPA, Xcel Energy	SeaWest	Completed	Operating
	Rock River	WY	50.0	16.6	PacifiCorp	SeaWest	Completed	Operating
	Condon	OR	49.8	16.5	BPA	SeaWest	Completed	24.6 Operating 25.2 Online 6/02
	Vansycle Windplant	OR	24.5	7.5	PGE	FPL Energy	Completed	Operating
	Klondike	OR	24.0	7.9	NW Aluminum	NW Wind Power	Completed	Operating
<b>Wind (Development)</b>	Nine Canyon	WA	48.0	14.4	Energy Northwest	RES	Completed	Under construction
	Zintel Canyon	WA	50.0	15.0	Energy Northwest	RES	Underway	In permitting process
	Klondike Expansion	OR	24.0	7.2	NW Aluminum	NW Wind Power	Underway	Proposed
	Horse Heaven Hills	WA	150.0	47.6	BPA	Pacific Winds	Underway	Proposed
	Roosevelt	WA	150.0	50.0	BPA	SeaWest	Underway	Proposed
	Columbia Wind Ranch	WA	80.0	26.4	BPA	Cielo Wind Power	Underway	Proposed
	Summit Ridge	OR	50.0	16.5	BPA	SeaWest	Underway	Proposed
	Stateline Expansion	WA	20.0	6.0	Pacific Power Marketing	FPL Energy	Completed	Approved
	Stateline Expansion 1	OR	39.6	11.9	Pacific Power Marketing	FPL Energy	Completed	Approved
	Stateline Expansion 2	OR	116.8	35.0	Pacific Power Marketing	FPL Energy	Underway	In permitting process
	Combine Hills Turbine Ranch	OR	100.0	32.0		Tomen Power Corp.	Underway	In permitting process
	Kittitas Valley	WA	250.0			Zilkha	Underway	Environmental Review
	Maiden Wind Farm	WA	150 - 494	50.0	BPA	Pacific Winds	Underway	Draft EIS 3/02
<b>Geothermal</b>	Telephone Flat Glass Mountain Area (Klamath Falls, OR)	N. CA	49.0	45.0	BPA	Calpine	Complete	Rejected by USFS Appeal Pending
	Four Mile Hill Glass Mountain Area	N. CA	55.0	49.9	BPA	Calpine	Complete	Test drilling Spring 2002
<b>Solar</b>	Various Small-Scale Projects *	WA, MT			Orcas Power & Light, Northwestern Power	N/A	N/A	Installations for residential, schools, commercial and agricultural
	Solar Pioneer	OR	8.4 kW		Oregon Office of Energy, PGE, OSEIA			Operating
	Solar Ashland	OR	15 kW		City of Ashland			Operating
	White Bluffs	WA	35-50 kW		Energy Northwest			Online June 2002

# Legislative and Policy Highlights

- Washington SHB2247 - resulted in seven new utility green power programs in WA.
- Oregon SB 1149 - unique partial restructuring resulted in three green power options for PGE and PacifiCorp residential and small business customers.
- Oregon Energy Trust - .5% Systems Benefit Charge for renewables. \$80-\$100 million over the next 10 years.
- MT systems benefit charge also generates funds for renewables
- BPA Transmission rate case successful - eliminated generation imbalance penalties for wind



# NW Green Power Market

- Twenty-three programs in four states (eight new in 2002)
- Participation: 41,000+ residential customers  
900+ commercial customers
- Purchases doubled in 2001, more than tripled in 2002
- Retail sales are over 162 million kWh. This demand combined with Bonneville Environmental Foundation retail Green Tag sales is enough to support 106 600kW turbines.
- Participation rates averaged 1.6% in 2002 (range from 0.02% - 4.7%)
- Not a substitute for utility acquisition

# NW Green Power

(Continued)

- Nine new offerings
  - two certified products
  - four more certifications likely
- Affordable Entry Prices:  
\$1 - \$4
- Blocks: 55 kWh to 200 kWh
- Many utilities purchase wholesale green power on behalf of all customers



# Green Power Programs

## A Few Standouts

- Pacific Power and PGE
- EWEB and OPALCO
- Clark County PUD
- Pacific County PUD





# Summary

- Quadrupled renewable capacity in the ground and growing.
- New legislation supports renewables and spurs green power sales.
- Green power is still attractive after significant rate increases.
- Legislation increased the participation rate, but offering a program does not make it successful. Marketing is critical.
- Download a copy of *Powerful Choices III* from [http://www.rnp.org/htmls/pr\\_PwrChcs3.htm](http://www.rnp.org/htmls/pr_PwrChcs3.htm)



# **Conclusion**



**Sustained activity resulting in increased development of renewables will lead to:**

- diversity of power sources**
- stable rates for utility customers**
- clean air for all.**